

Claims

1. A device for providing a distributed zone of fluid in a filter of a smoking article comprising:

- 5 (a) a container for a fluid which forms a wet impact barrier when inserted into a smoking article, and
(b) a delivery feature communicating between the container and an outlet of the delivery feature, for transfer of said fluid to the smoking article, wherein the delivery feature comprises at least in part a tube of significantly lesser diameter than the diameter of the
10 smoking article, and the combination of container and delivery feature provides for placement of a substantially definable quantity of said fluid at a predetermined location within the smoking article.

2. A device according to Claim 1, wherein the delivery feature comprises an
15 injection needle.

3. A device according to Claim 2, wherein the injection needle is adapted for lateral injection of said fluid through a side wall of the filter.

20 4. A device according to Claim 2 or 3, wherein the needle is a disposable unit mountable on the container for one-trip use.

5. A device according to any of Claims 1 to 4, wherein control of delivery of fluid is facilitated by the construction of the container.
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6. A device according to Claim 5, wherein at least a portion of a wall of the container is resilient and/or pliable.

7. A device according to Claim 1, wherein the delivery feature comprises at least
30 one injection needle.

8. A device according to Claim 7, wherein the or each injection needle is of sufficient axial extent for insertion from an end region of an elongate smoking article to extend axially within said smoking article to a region of said filter in the vicinity of a filter to tobacco boundary.

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9. A device according to Claim 8, wherein the or each injection needle is of sufficient axial extent for insertion from the tobacco end of the smoking article to extend into said region of the filter in the vicinity of the filter to tobacco boundary.

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10. A device according to Claim 8, wherein the or each injection needle is of sufficient axial extent for insertion from the filter end of the smoking article to extend into said region of the filter in the vicinity of the filter to tobacco boundary.

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11. A device according to any of Claims 8 to 10, comprising stop means to delimit the extent of insertion of said injection needle.

12. A device according to any of Claims 7 to 11, comprising a plurality of injection needles.

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13. A device according to any of Claims 7 to 12, wherein the delivery feature further comprises a piston and cylinder type unit and control of delivery is achieved by displacement of a piston or plunger within a cylinder of the unit.

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14. A device according to Claim 13, wherein said cylinder is provided with an external sheath to engage over the exterior of at least a portion of an elongate smoking article during application of the device to the smoking article.

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15. A device according to Claim 13 or Claim 14, wherein said cylinder is provided with gradation marks to facilitate the dispensing of a substantially definable quantity of said fluid.

16. A device according to any of Claims 13 to 15, wherein the or each injection needle extends from an end face of the cylinder and said end face defines a stop to delimit the extent of insertion of the injection needle(s) into a smoking article.

5 17. A device according to Claim 13 or Claim 14, wherein said piston or plunger is spring-loaded and delivery of fluid is achieved by engagement of an end face of the smoking article against said piston or plunger and displacement of the piston or plunger against the spring loading.

10 18. A device according to Claim 17, wherein the or each injection needle extends directly from said piston or plunger and the face of the piston/plunger from which the needle(s) extend(s) defines a stop to delimit the extent of insertion of the injection needle(s) into a smoking article.

15 19. A device according to Claim 17 or Claim 18, comprising a non-return valve for one-way flow of fluid from container to cylinder.

20. A kit for providing a distributed zone of fluid in a filter of a smoking article comprising:

- 20 (a) a container for a fluid which forms a wet impact barrier when inserted into a smoking article, and
- (b) a multiplicity of disposable delivery features for communicating between the container and an outlet of the delivery feature, for transfer of said fluid to the smoking article, each disposable delivery feature comprising at least in part a tube of significantly
- 25 lesser diameter than the diameter of the smoking article and being mountable on the container for one-trip use for placement of a substantially definable quantity of said fluid at a pre-determined location within the smoking article.